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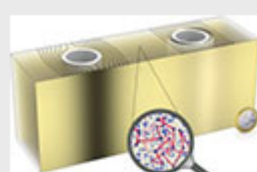
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PHOTONICS.com

Thursday, June 12, 2014

Optical Invisibility Cloak Ideal for Diffusive Media



A new invisibility cloak technology conceals objects in diffusive media such as fog, clouds or frosted glass. Optical cloaks have been challenging to achieve for all situations; most only work at specific colors or polarizations, or from very specific directions.

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Light Mitigates Alzheimer's Symptoms

Those suffering from Alzheimer's disease and dementia could soon find some relief thanks to a developing light treatment.

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New Terahertz System Simpler, Clearer

A team from Northwestern University has produced terahertz radiation in a simplified system, making it easier to harness the power of such waves.

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Products on PhotonicsBuyersGuide.com



Dynamic Laser Interferometer

4D Technology
The 1064nm PhaseCam® 6000 is an extremely compact and lightweight, Twyman-Green interferometer for measuring near-infrared optics and optical systems.

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Taper Manufacturing Station

3SAE Technology
The production-ready Taper Manufacturing Station (TMS) with optional cleaving package is designed for use in the manufacturing of optical fiber tapers, bundles and couplers.

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pco.edge gold 5.5

PCO Tech
PCO AG presents a further model of the pco.edge sCMOS camera family. This brand new member featuring deep cooling is called pco.edge gold 5.5.

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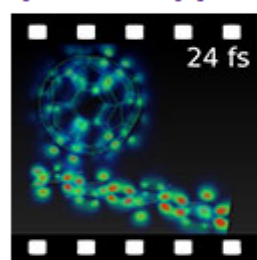
Mini and Micro Lens Elements

Argyle International
Argyle's lens designs range from single and double convex, single and double concave, meniscus, rod lenses, and rod doublets and triplets.

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Spectroscopy Helps Capture Charge Transfer in Solar Cells



Ultrafast spectroscopy has allowed physicists, for the first time, to observe and capture the light-to-current conversion process in an organic solar cell as it happens.

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MRI-guided Laser an Alternative to Epilepsy Surgery

Researchers have developed an MRI-guided, minimally invasive laser procedure for patients with mesial temporal lobe epilepsy.

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Crystals Set in Motion by UV Light

A microscopic phenomenon, in which tiny crystals of a cobalt coordination compound burst apart like popcorn when exposed to UV light, could potentially turn sunlight into mechanical energy.

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In this edition of the industry's **premier weekly newscast**: A new laser device detects alcohol in moving cars, a noninvasive procedure controls epilepsy symptoms, a microscopic phenomenon harnesses solar energy, and Photonics Media Web Managing Editor James Lowe reports from CLEO 2014 in San Jose, Calif.

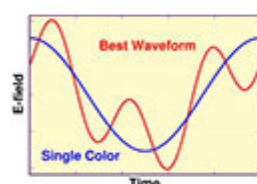
CrossFiber Names Decelle CEO

Mike Decelle has been appointed president and CEO of CrossFiber Inc., a manufacturer of photonic switches for data centers and fiber optics networks.

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Harmonic Generation Promising for Powerful Light Source



A new approach to harmonic generation aims to create smaller, more powerful tabletop light sources for laboratory research, particularly in the emerging area of strong-field physics.

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Photo-induced Doping Tames Graphene

Lawrence Berkeley National Laboratory researchers have developed a way to tailor the electrical properties of graphene boron nitride using visible light.

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WHITE PAPER



Optimization of LED Lens Components using TracePro®

Lambda Research Corp.

TracePro® is an award-winning opto-mechanical design software for layout, optimization, and analysis of illumination systems. This white paper illustrates how TracePro's 2D and 3D optimization utilities are designed to help CAD designers without optical engineering expertise design a variety of LED optical components – including practical examples. The capabilities of TracePro lead the designer through a process to maximize the technical merits of the device/system in the shortest amount of time.

[DOWNLOAD WHITE PAPER >>](#)

Industry Events

Sensors Expo & Conference 2014 - June 24-26, 2014 · Rosemont, Ill.



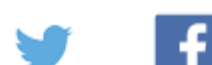
The annual Sensors Expo & Conference, established in 1986, is the only industry event in North America that exclusively focuses on sensors and sensor-integrated systems.

The conference program explores the latest innovations in sensor technology, including Internet of Things, MEMS, Energy Harvesting, M2M, Wireless and Measurement & Detection. The event identifies cutting-edge trends and reflects those trends throughout the exhibit floor with new product announcements and key technology-focused areas, as well as a showcase of hundreds of products and services.

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FEATURED VIDEO



Edmund Optics – Polarization Basics

Polarizers are optical components designed to filter, modify, or analyze the various polarization states of light. Polarizers are commonly integrated into optical systems to decrease glare or increase contrast, or for measuring changes in magnetic fields, temperature, or chemical interactions. Join Brian McCall as he discusses the types of polarization and polarizers.

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